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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,401	03/01/2004	Ming Li	MATG-401US	1061
23122 7	590 11/29/2005		EXAMINER	
RATNERPRESTIA P O BOX 980		ELVE, MARIA ALEXANDRA		
	GE, PA 19482-0980		ART UNIT	PAPER NUMBER
	•		1725	- -

DATE MAILED: 11/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	7			
	10/790,401	LI ET AL.				
Office Action Summary	Examiner	Art Unit				
	M. Alexandra Elve	1725				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) This	action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-85</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-85</u> are subject to restriction and/or e	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicati	on No				
Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)	_					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-12, drawn to method of manufacturing a quantum electronic device, classified in class 219, subclass 121.61.
- II. Claims 13-24, drawn to method of manufacturing a micro-optical device, classified in class 219, subclass 121.6.
- III. Claims 25-37, drawn to method of manufacturing a micro-mechanical oscillator, classified in class 219, subclass 121.67.
- IV. Claims 38-48, drawn to method of manufacturing a mold for a microstructure, classified in class 219, subclass 121.68.
- V. Claims 49-57, drawn to method for forming defect in a photonic crystal, classified in class 219, subclass 121.65.
- VI. Claims 58-69, drawn to method of mass customizing a plurality of microstructures with a laser, classified in class 219, subclass 121.6.
- VII. Claims 70-81, drawn to method of repairing a microstructure with a laser, classified in class 219, subclass 121.63.
- VIII. Claims 82-85, drawn to method of pre-calibration of a laser micromachining system, classified in class 219, subclass 121.6.

The inventions are distinct, each from the other because of the following reasons:

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Inventions I-VIII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are (i) a method of manufacturing a quantum electronic device, (ii) a method of manufacturing a micro-optical device, (iii) method of manufacturing a micro-mechanical oscillator, (iv) method of manufacturing a mold for microstructures, (v) a method for forming a defect in a photonic crystal, (vi) a method for mass customizing a plurality of microstructures with a laser, (vii) a method for repairing a microstructure with a laser and (viii) a method for pre-calibration of a laser micromachining system.

Because these inventions are distinct for the reasons given above and the search required for one of the above Groups is not required for one of the other above Groups, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

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or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 28, 2005.

IVI. Alexandra Elve Briman, Evaminar 172

Primary Examiner 1725

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